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Building & Highway Material Testing Laboratory

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/CEMENT/2019-20 Date: 14.08.2019

TEST REPORT ON CEMENT

*** Customer**	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
*** Agency**	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
*** Name of Work**	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
*** Reference**	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
*** Sample ID**	:	Cement
Sample Received on	:	12.08.2019
Period of Testing	:	12.08.2019 to 14.08.2019

The results of the tests conducted on the cement sample are as follows:

Sl. No	Descriptions	Test Method as per IS	Test Result	Requirements as per IS: 8112-2013
1	Standard Consistency	IS-4031 (Part -4) 1988 (RA-2014)	27.00 %	-
2	a) Initial Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	185 Minutes	Not Less than 30 Minutes
	b) Final Setting Time	IS-4031 (Part -5) 1988 (RA-2014)	390 Minutes	Not More than 600 Minutes
3	Soundness by Le Chartlier Method	IS-4031 (Part-3) 1988 (RA-2014)	1 mm	Not more than 10mm

*Information is furnished by the Customer/Representative.

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Pooja K.L.

****

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BBMP, Bangalore

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/SAND-Gradation/2019-20 14.08.2019

TEST REPORT ON SIEVE ANALYSIS OF FINE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of Work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Fine Aggregates (M - Sand)
Technical Reference	:	IS : 2386 (Part 1) - 1963 (RA-2011)
Sample Received On	:	12.08.2019
Date of Testing	:	14.08.2019

Total Wt. of Aggregates in gms = **1000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)			
		Zone-I	Zone-II	Zone-III	Zone-IV
10	100	100	100	100	100
4.75	98.00	90-100	90-100	90-100	95-100
2.36	82.00	60-95	75-100	85-100	95-100
1.18	63.80	30-70	55-90	75-100	90-100
600 Micron	41.30	15-34	35-59	60-79	80-100
300 Micron	19.80	5-20	8-30	12-40	15-50
150 Micron	7.70	0-10	0-10	0-10	0-15

* Information is furnished by the Customer/Representative

Remarks : This sample is under Zone-II specific limits.

Note 1 :

For crushed stone sands, the permissible limit on 150-micron IS Sieve is increased to 20 percent. This does not affect the 5 percent allowance permitted in 4.3 of IS 383 applying to other sieve sizes.

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e-mail : vishwanath.ia@civiltechconsultants.com / info@civiltechconsultants.com

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/AGG/GR/2019-20 14.08.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of Work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coarse Aggregates (40mm)
Technical Reference	:	IS : 2386 (Part 1) -1963 (RA-2011)
Sample Received on	:	12.08.2019
Date of Testing	:	14.08.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS 383-1970 (RA- 2011)	
		Graded	Single Sized
80	100	100	-
63	100	-	100
40	97.36	95-100	85-100
20	38.36	30-70	0-20
10	14.12	10-35	0-5
4.75	2.12	0-5	-

* Information is furnished by the Customer/Representative

Remarks : This sample is under graded specific limits.

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/AGG/GR/2019-20 14.08.2019

TEST REPORT ON SIEVE ANALYSIS OF COARSE AGGREGATES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of Work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coarse Aggregates (20mm)
Technical Reference	:	IS : 2386 (Part 1) -1963(RA-2011)
Sample Received on	:	12.08.2019
Date of Testing	:	14.08.2019

Total Wt. of Aggregates in gms= **5000**

IS Sieve Size in mm	Cumulative Weight Passing in %	Specific Limits as per IS :383-1970 (RA- 2011)	
		Graded	Single Sized
40	100	100	100
20	96.76	95-100	85-100
10	38.66	25-55	0-20
4.75	7.76	0-10	0-5

* Information is furnished by the Customer/Representative

Remarks : This sample is under Graded specific limits

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Job No.: CTCE/BBMP/KAK/W.No.09/Steel/2019-20 16.08.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Samples ID	:	8mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	16.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	8	0.39	516	557	13.1	O.K	O.K

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Job No.: CTCE/BBMP/KAK/W.No.09/Steel/2019-20 16.08.2019

TEST REPORT ON REINFORCEMENT STEEL

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Samples ID	:	10 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	16.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	10	0.62	520	562	13.25	O.K	O.K

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TEST REPORT ON REINFORCEMENT STEEL

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* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Samples ID	:	12 mm Bar
Technical Reference	:	IS: 1786-2008
Date of Testing	:	16.08.2019

Sl No	Nominal size (dia) (mm)	Mass per metre (Kg/mtr)	TENSILE STRENGTH			Bend Test	Rebend Test
			0.20% proof stress/Yield stress N/mm2	Tensile strength (Ultimate stress) N/mm2	Elongation percent gauge length		
1	12	0.89	525	567	13.4	O.K	O.K

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 16.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.123	492.5	21.89
2	19.08.2019	16.09.2019	8.215	505.6	22.47
3	19.08.2019	16.09.2019	8.320	516.9	22.97

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 16.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.328	478.8	21.28
2	19.08.2019	16.09.2019	8.415	482.6	21.45
3	19.08.2019	16.09.2019	8.480	502.3	22.32

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TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	16.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	19.08.2019	16.09.2019	8.090	493.5	21.93
2	19.08.2019	16.09.2019	8.192	516.6	22.96
3	19.08.2019	16.09.2019	8.227	522.9	23.24

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 18.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.08.2019	18.09.2019	8.196	486.9	21.64
2	21.08.2019	18.09.2019	8.220	493.2	21.92
3	21.08.2019	18.09.2019	8.360	508.6	22.60

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 18.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.08.2019	18.09.2019	8.162	480.3	21.35
2	21.08.2019	18.09.2019	8.220	490.5	21.80
3	21.08.2019	18.09.2019	8.380	505.8	22.48

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 18.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	18.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	21.08.2019	18.09.2019	8.375	486.9	21.64
2	21.08.2019	18.09.2019	8.456	492.6	21.89
3	21.08.2019	18.09.2019	8.229	504.5	22.42

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* Sample ID	:	RCC Drain Side Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.08.2019	20.09.2019	8.180	493.5	21.93
2	23.08.2019	20.09.2019	8.260	515.6	22.92
3	23.08.2019	20.09.2019	8.345	523.4	23.26

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Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.08.2019	20.09.2019	8.097	486.6	21.63
2	23.08.2019	20.09.2019	8.195	492.3	21.88
3	23.08.2019	20.09.2019	8.227	505.8	22.48

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	20.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	23.08.2019	20.09.2019	8.325	478.5	21.27
2	23.08.2019	20.09.2019	8.392	480.3	21.35
3	23.08.2019	20.09.2019	8.406	502.6	22.34

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* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Retaining Bottom Slab Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2019	23.09.2019	8.115	476.5	21.18
2	26.08.2019	23.09.2019	8.230	484.9	21.55
3	26.08.2019	23.09.2019	8.382	508.6	22.60

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2019	23.09.2019	8.113	475.6	21.14
2	26.08.2019	23.09.2019	8.235	489.3	21.75
3	26.08.2019	23.09.2019	8.462	513.2	22.81

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Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	23.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	26.08.2019	23.09.2019	8.195	495.7	22.03
2	26.08.2019	23.09.2019	8.226	519.6	23.09
3	26.08.2019	23.09.2019	8.328	532.8	23.68

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* Sample ID	:	RCC Drain Retaining Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	25.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.08.2019	25.09.2019	8.102	486.6	21.63
2	28.08.2019	25.09.2019	8.209	495.3	22.01
3	28.08.2019	25.09.2019	8.305	512.8	22.79

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Sample Received on	:	25.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.08.2019	25.09.2019	8.208	486.3	21.61
2	28.08.2019	25.09.2019	8.305	495.2	22.01
3	28.08.2019	25.09.2019	8.405	513.2	22.81

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Sample Received on	:	25.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	28.08.2019	25.09.2019	8.225	482.3	21.44
2	28.08.2019	25.09.2019	8.359	492.5	21.89
3	28.08.2019	25.09.2019	8.405	512.3	22.77

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* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Retaining Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.08.2019	28.09.2019	8.175	513.2	22.81
2	31.08.2019	28.09.2019	8.232	524.5	23.31
3	31.08.2019	28.09.2019	8.390	542.6	24.12

*Information is furnished by the Customer/Representative.

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JAS-ANZ BSCIC ISO 9001 REGISTERED

Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 28.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Retaining Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.08.2019	28.09.2019	8.325	520.6	23.14
2	31.08.2019	28.09.2019	8.415	534.7	23.76
3	31.08.2019	28.09.2019	8.492	548.9	24.40

*Information is furnished by the Customer/Representative.

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 28.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	RCC Drain Retaining Wall Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	28.09.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	31.08.2019	28.09.2019	8.110	510.3	22.68
2	31.08.2019	28.09.2019	8.280	522.4	23.22
3	31.08.2019	28.09.2019	8.380	530.9	23.60

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Job No.: CTCE/BBMP/KAK/W.No.09/CSR-1033/Cube/2019-20 10.10.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CUBES

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of the work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Coping Concrete
Technical Reference	:	IS: 516-1959 (RA-2013)
Size of cubes	:	150mmx150mmx150mm
Cross Sectional Area	:	22500 mm^2
* Grade of Concrete	:	M_{20}
Compressive Strength as on	:	28^{th} day
Sample Received on	:	10.10.2019

Sl.No.	* Date of casting	Date of testing	Weight of cube (Kg)	Failure load (KN)	Compressive strength (N/mm^2)
1	12.09.2019	10.10.2019	8.162	474.5	21.09
2	12.09.2019	10.10.2019	8.269	485.9	21.60
3	12.09.2019	10.10.2019	8.325	516.8	22.97

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Job No.:CTCE/BBMP/KAK/W.No.09/CSR-1033/Precast Slab/2019-20 18.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Precast Slab (250mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	16.09.2019
Date of Testing	:	18.09.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	78.00	0.390	2546.48	1.56	0.952	29.85	15.20	16.42	17.24	21.55
2	50.00	79.00	0.396	2552.93	1.58	0.955	32.25	16.42	17.74	16.93	21.17
3	50.00	81.00	0.401	2521.33	1.62	0.959	33.85	17.24	18.62	17.85	22.32

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Job No.:CTCE/BBMP/KAK/W.No.09/CSR-1033/Precast Slab/2019-20 18.09.2019

TEST REPORT ON COMPRESSIVE STRENGTH OF CONCRETE CORE

* Customer	:	**Asst. Executive Engineer,** Vidyaranyapura Sub Division, BBMP, Bangalore.
* Agency	:	**Sri. K.Anil Kumar,** No.84-L, 2nd Floor, 3rd Cross, 4th Main, HAL 3rd Stage, Bangalore – 560 075.
* Name of work	:	Construction of RCC drain and improvements to drains from Raghavendra Temple to Vidyaranyapura Main Road HMT Layout in Ward No.09, Vidyaranyapura (Vidyaranyapura Sub Division), BBMP, Bangalore.
* Reference	:	BBMP/EE/BTP/WO/233/2018-19 Dated: 26.02.2019
* Sample ID	:	Precast Slab (100mm thick)
* Grade of Concrete	:	M_{20}
Techinical Reference	:	IS:516-1959 (RA- 2013), SP-24:1983.
Sample Received on	:	16.09.2019
Date of Testing	:	18.09.2019

Sl. No	Dia of Core D (mm)	Height of Core H (mm)	Core Wt (Kg)	Density of Core (kg / m^3)	H / D	Correction factor (Based on H/D)	Failure Load (kN)	Core Strength (N/mm^2)	Correction Factor for the Dia. (Strength of the Core x 1.08)	Corrected Cylinder Compressive Strength (N/mm^2)	Equivalent Cube Compressive Strength (N/mm^2)
1	50.00	82.00	0.405	2515.42	1.64	0.961	29.80	15.18	16.39	17.05	21.32
2	50.00	83.00	0.415	2546.48	1.66	0.963	32.25	16.42	17.74	17.09	21.36
3	50.00	84.00	0.421	2552.54	1.68	0.965	34.85	17.75	19.17	18.51	23.13

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